

## CLAIMS

What is claimed is:

1. An apparatus that corrects a white line of an ink-jet printer, comprising:
  - a driving section which rotates one or more rollers to transfer a paper and drives an ink cartridge in response to control signals, so that the printing is implemented in a preset printing width;
  - a memory which stores information relating to an overfeeding amount and an overfeeding position of the corresponding paper according to a type of the paper; and
  - a control section which outputs the control signals to the driving section so that the paper is sequentially fed according to the preset printing width, wherein the control section calls the information relating to the overfeeding amount and the overfeeding position stored in the memory, judges the corresponding overfeeding amount and overfeeding position according to the type of the paper, and outputs control signals if the control section judges that the printing position is located on the line positioned just before the overfeeding position, so that the printing is implemented by dummy nozzles corresponding to the overfeeding amount together with nozzles corresponding to the preset printing width.
2. The apparatus according to claim 1, wherein the control section controls the printing in such a way that the printing is implemented by the nozzles located in the area retreated to the extent of the width of the dummy nozzle area from the normal printing area thereof until the printing is terminated starting from the line positioned just after the overfeeding position.
3. A method to control an apparatus to correct a white line of an ink-jet printer comprising :
  - driving a pickup roller to pick up a paper when a printing command is inputted;
  - judging whether the leading end of the paper enters the printer using a paper-detection sensor;
  - judging a corresponding overfeeding amount and overfeeding position in accordance with the type of the paper;
  - sequentially implementing the printing, using nozzles, and feeding in accordance with a preset printing width; and

implementing the printing using dummy nozzles which are not used in the printing of the sequential implementing operation, in such a way that the printing is performed for the overfeeding amount judged in the judging operation as well as for the printing width of the sequential implementing operation, when the line positioned just before the overfeeding position judged in the judging operation is printed.

4. The method according to claim 3, further comprising :

secondarily implementing the printing using the nozzles, used in the implementing operation, retreated to the extent of the width of the area of the dummy nozzles from the position of the dummy nozzles used in the sequential implementing operation until the printing is terminated starting from the line positioned just after the line printed in the implementing operation.

5. An apparatus that corrects a white line of an ink-jet printer, comprising:

a driving section which positions a paper having certain characteristics and dimensions including an overfeeding position, and drives an ink cartridge in response to control signals to print a line;

a memory and control section which stores the overfeeding position and outputs the control signals;

a nozzle, in the ink cartridge, printing in a preset printing width; and

a dummy nozzle, in the ink cartridge, printing in the overfeeding position.

6. The apparatus according to claim 5, wherein the ink cartridge repeatedly performs reciprocal left and right movements in response to the control signals.

7. The apparatus according to claim 5, wherein the nozzle, to print in a preset printing width, is plural in number.

8. The apparatus according to claim 7, wherein the dummy nozzle, to print in the overfeeding position, is plural in number.

9. The apparatus according to claim 7, wherein the nozzles and the dummy nozzles are formed in the underside of the ink cartridge.

10. The apparatus according to claim 9, wherein the printing is implemented by the nozzles located in a printing area retreated from a normal printing area by the width of the dummy nozzles until the printing is terminated starting from the line positioned just after the overfeeding position.

11. A method to control an apparatus to correct a white line of an ink-jet printer comprising:  
driving a pickup roller to pick up a paper when a printing command is inputted;  
judging whether a leading edge of the paper enters using a paper-detection sensor and  
judging a characteristic overfeeding amount and characteristic overfeeding position  
corresponding to the paper;  
sequentially implementing the printing and feeding in accordance with a preset printing  
width; and  
employing dummy nozzles to print in accordance with the judged overfeeding amount  
when the line positioned just before the judged overfeeding position is printed.

12. The method according to claim 11, wherein the judging comprises determining a type of the paper being used.

13. The method according to claim 12, wherein the judging further comprises determining the overfeeding amount and the overfeeding position according to the type of paper being used.

14. The method according to claim 11, wherein the sequential implementing comprises:  
outputting control signals to the driving section, if the detection signal of the leading edge of the paper is inputted;  
transferring the paper to the printing position; and  
sending control signals to the ink cartridge to cause the ink cartridge to repeatedly reciprocate in left and right directions.

15. The method according to claim 11, wherein the judging comprises determining the material of the paper.

16. The method according to claim 11, wherein the judging comprises calling information related to the overfeeding amount and the overfeeding position.

17. The method according to claim 11, wherein the sequential implementing comprises outputting control signals to the driving section to repeatedly reciprocate the ink cartridge in left and right directions.

18. The method according to claim 11, wherein the sequential implementing comprises arranging and transferring the paper to the printing position.

19. The method according to claim 11, wherein the sequential implementing comprises feeding the paper in a preset feeding amount.

20. The method according to claim 11, wherein the sequential implementing comprises applying control signals to repeatedly reciprocate an ink cartridge in left and right directions.

21. The method according to claim 11, wherein the employing comprises printing the overfeeding amount together with the nozzles when the judged position is the position just before the overfeeding position.